

## Configurations

Model	Readers	Relay Outputs	Outputs Voltage	Dry Control Inputs	Supervised Inputs	Power Supply Amps Required	Voltage Required (VDC)
ULT IQ-8	8	8	8	8	8	6	12
ULT IQ-8 OUT	8	24	8	24	8	6	12
ULT IQ-8 ALM	8	8	8	24	8	6	12
ULT IQ-8 SAM	8	8	8	8	16	6	12
ULT IQ-8 SAM2	8	8	8	8	24	6	12

### Leadership Since 1983

PCSC, dedicated to strategically developing and re-evaluating itself to provide the best products and services in a rapidly changing industry. We're becoming a different company: refining what we do great, searching for new ways to improve ourselves – all in an effort to serve you better. That's what has made PCSC a leader in the security management industry since 1983.



# ULTIMATE Series Controller

## Specifications

<b>Dimensions</b>	21.8"H x 16.1"W x 5.7"D (55.4cm x 40.9cm x 14.5cm)
<b>Weight</b>	38 lbs. (17.2kg)
<b>Temperature</b>	32° - 115°F (0° - 46°C)
<b>Enclosure</b>	16GA CRS, tamper switch & key lock
<b>Finish</b>	Semi-gloss gray Polyurethane paint Fed. Std. 595A #26559
<b>PCB</b>	.062" thick glass epoxy 94V-0 UL flame rating
<b>Memory</b>	Battery protected
<b>Calendar/Clock</b>	Battery protected
<b>Relay Rating</b>	2 amps @ 24VDC
<b>Electrical</b>	110VAC ±10% 60Hz 220VAC ±20% 50Hz 6 amps 12VDC (max)

### Wire Requirements

Reader Ports <sup>1</sup>	5c22AWG/SH/STR/TW
Outputs <sup>2</sup>	2c18AWG/STR/TW
Inputs <sup>3</sup>	2c22AWG/STR/TW
Supervised Inputs <sup>3</sup>	2c22AWG/SH/STR/TW

#### Notes:

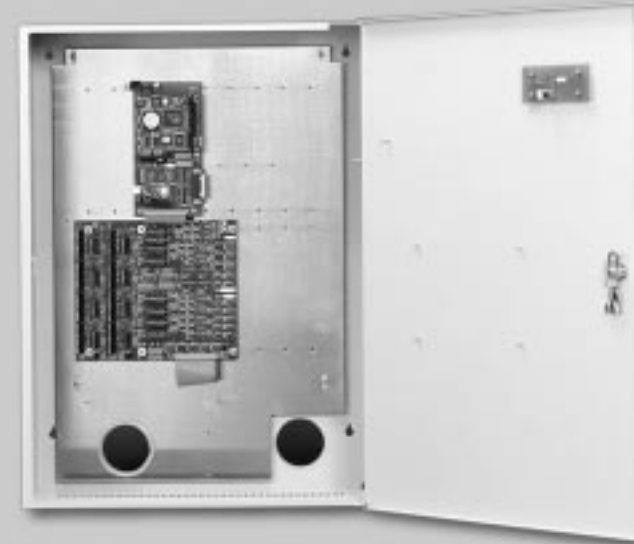
- 500 feet or 2,000 feet depending on technology and adapter installation
- 500 feet maximum. (152 meters)
- 2,000 feet maximum. (609 meters)

C - Conductor

AWG - Gage

SH-Shielded, STR-Stranded, TW-Twisted

# ULTIMATE Series Controller



### Flexible Architecture

PCSC again takes a leadership position by offering upgrades of existing PCSC controllers to a 32 bit CPU. All existing TIP, Micro® and IQ™ controllers can be upgraded to this powerful technology.

- Reader Port Expansion 4, 8, 12
- Upgrade Existing PCSC controllers TIP, MicroLPM® and IQ™ series
- On-board Ethernet, TCP/IP interface
- Year 2000 Compliant
- From 20,000 to 50,000 cards and 4,000 event storage (expandable)
- Compatible with LiNC-NET®, IQ™ and MicroLPM® series products
- UL294 and 1076 Pending
- AUSTEL listed, CE marked, and FCC compliant

The PCSC Ultimate series controllers are fully distributed access control panels which use an industry standard 32 bit processor. They are available in 20 flexible configurations. All controllers in the series include the following features:

### Communications

The Ultimate series comes standard with an onboard Ethernet connection. It connects directly to your LAN, WAN or MAN. The controllers are capable of continued standalone decision making in the event of a communication loss.

### Flash Memory

The Ultimate Series controllers include flash memory. This vehicle provides the ability to remotely download updates over File Transfer Protocol (FTP) on the network thus eliminating the costly procedure of manual PROM replacements.

### Flexible Reader Choices

PCSC ProTech, 5 - 12 digit Magnetic stripe, Wiegand, Proximity, Watermark, Bar code, Keypad, Radio frequency and Biometric technologies are supported.

### Sophisticated Capabilities

Each card can be configured for extended access times for ADA compliance; card usage counting; anti-passback for parking control; visitor/escort controls and two-person rule for high security applications; cardholder credit debited by card group and reader; cardholder ability to turn on or off equipment (lights, HVAC, etc.) in a given area; and readers and PIN pads may be overridden by time period. A local printer port for hardcopy event logging is standard on all controllers.

### Digital Signal Processing (DSP)

PCSC's analog-to-digital inputs provide a higher level of monitoring. Separate monitoring systems are not necessary with the PCSC network.

### Card Control and Capacity

Standard capacity of 20,000 with the ability for custom expansion capability. Cards may be affiliated with any of 255 access codes as well as 3 card classes. Cards are set to expire by day, month or year. Cards can also have exemptions by date and time period and events and reader type. Four digit Personal Identification Numbers may be user defined. Cardholder names are stored locally for a higher level of security.

### Extensive Time Controls

Flexible control of time with 64 regular and holiday time periods. You can develop 420 intervals for the time periods. The holiday list covers all 365 days. All controllers have automatic daylight savings time and leap year control.

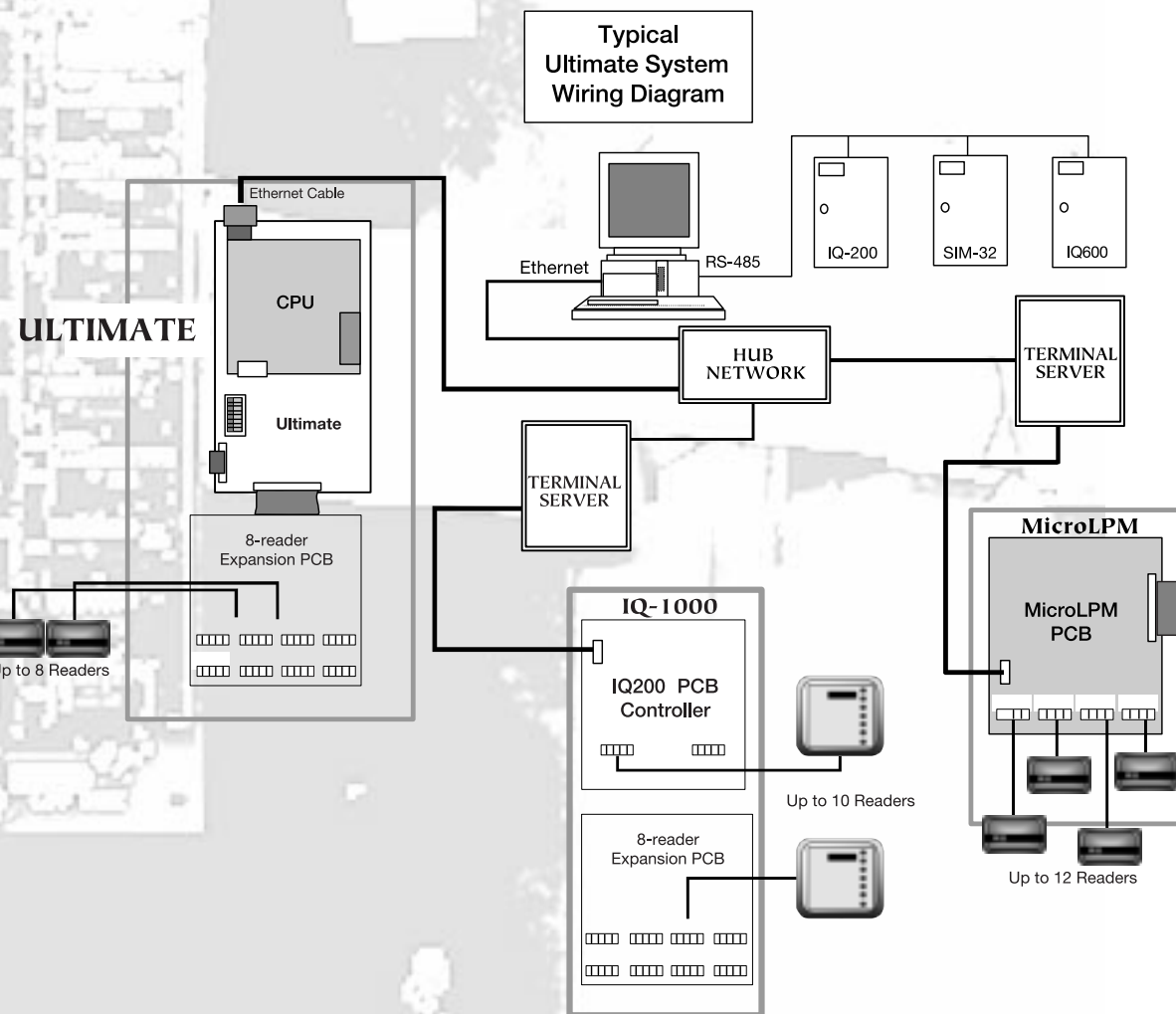
### Name and Event Storage

20,000 cardholder, reader, alarm events and output actions are stored. Readers, inputs and outputs may have eight character names stored on-board the controller. Cardholder may have 12 characters stored on-board controller.

### Input and Output Capabilities

The Ultimate series controllers feature control counters which allow the linking of counted events with pre-programmed events, also known as user programmable language (UPL). Outputs may be associated with any of five event classes and inputs may be shunted by event, output or time. Inputs are individually user definable as N.O. or N.C.

The "ULT" is the core product in the Ultimate series of controllers, available in many configurations. An industry standard 32 bit processor to handle all the standard sophisticated features. An on-board Ethernet connection to easily tap into your existing communication highway. Flash memory, IDE controller interface, 20,000 to 50,000 card capacity with custom expansion and the ability to store 4K transactions are just a few of the powerful features on the Ultimate.



## Configuration

# ULT

Available in two configurations through the use of the IQ™ series 8 reader adapter board and MicroLPM® 4 reader cluster boards. This controller is designed to easily retrofit into an existing IQ™ and MicroLPM® series controller network when a faster processor and memory are required. New installations with a high population of readers makes this controller ideal for this type of environment.

# ALM

For increased monitoring of inputs the ALM option eliminates the need for separate input and output panels. Adding this feature to the Ultimate series increases your input capacity by 16 Dry contact inputs.

# OUT

For increased outputs the "out" will activate horns, lighting, HVAC, or even power makes this option perfect attached to the Ultimate board. Capacity increases by 16 Relay Outputs and 16 Dry contacts inputs.

# SAM

The SAM option provides DSP supervised inputs. Supervised inputs utilize pseudo-random voltage reference, making the circuits difficult to compromise. The SAM option is self calibrating and features local status diagnostic LED's. Provides for two combinations: 8 or 16 supervised inputs.

## Personality